

F5 – Administering BIG-IP v11

This course gives network administrators, network operators, and network engineers a functional understanding of the BIG-IP system as it is commonly deployed in an application delivery network. The course introduces students to the BIG-IP system, its configuration objects, how it processes traffic, and how typical administrative and operational activities are performed. The course includes lecture, hands-on labs, interactive demonstrations, and discussions.

Détails

- **Code** : PROD-F5BIP
- **Durée** : 2 jours (14 heures)

Public

- Administrateurs
- Consultants
- Consultants en Sécurité
- Consultants informatiques
- Consultants IT
- Ingénieurs Systèmes
- Responsable Sécurité
- Systems engineers

Pré-requis

- OSI model encapsulation Routing and switching Ethernet and ARP TCP/IP concepts IP addressing and subnetting NAT and private IP addressing Default gateway Network firewalls LAN vs. WAN

Objectifs

- Getting started with the BIG-IP system
- Traffic processing with BIG-IP Local Traffic Manager (LTM)
- Using the Traffic Management Shell (tmsh) command line interface Using NATs and SNATs
- Monitoring application health and managing object status
- Modifying traffic behavior with profiles, including SSL offload and re-encryption

Programme

Chapter 1: Setting Up the BIG-IP System

- Introducing the BIG-IP System
- Initially Setting Up the BIG-IP System
- Archiving the BIG-IP Configuration
- F5 Support Resources and Tools
- Chapter Resources
- BIG-IP System Setup Labs

Chapter 2: Traffic Processing Building Blocks

- Identifying BIG-IP Traffic Processing Objects
- Network Packet Flow
- Configuring Virtual Servers and Pools
- Load Balancing Concepts
- Viewing Statistics and Logs
- Using the Traffic Management Shell (tmsh)
- BIG-IP Configuration State and Files
- Saving and Replicating Configuration Data (UCS and SCF)
- Viewing the BIG-IP Connection Table

Chapter 3: Using NATs and SNATs

- Address Translation on the BIG-IP System
- NAT Concepts
- Solving Routing Issues with SNATs
- Configuring SNAT Auto Map on a Virtual Serve
- Monitoring for and Mitigating Port Exhaustion

Chapter 4: Monitoring Application Health

- Introducing Monitors
- Types of Monitors

- Monitor Interval and Timeout Settings
- Configuring Monitors
- Assigning Monitors to Resources
- Managing Pool, Pool Member, and Node Status
- Using the Network Map

Chapter 5: Modifying Traffic Behavior with Profiles

- Introducing Profiles
- Understanding Profile Types and Dependencies
- Configuring and Assigning Profiles

Chapter 6: Modifying Traffic Behavior with Persistence

- Understanding the Need for Persistence
- Introducing Source Address Affinity Persistence
- Introducing Cookie Persistence
- Introducing SSL Offload and SSL Re-Encryption
- Managing Object State

Chapter 7: Troubleshooting the BIG-IP System

- Configuring Logging
- Using tcpdump on the BIG-IP System
- Leveraging the BIG-IP iHealth System
- Working with F5 Technical Support

Chapter 8: Administering the BIG-IP System

- Always-On Management (AOM)
- Expanding Availability with Device Service Clustering
- User Roles and Administrative Partitions
- vCMP

- iApps Overview

- iRules Resources

Chapter 9: Customizing Application Delivery with iRules

- iRules Concepts
- iRules Events

Chapter 10: Additional Training and Certification

- Getting Started Series Web-Based Training
- F5 Instructor Led Training Curriculum
- F5 Professional Certification Program

Modalités

- **Type d'action** :Acquisition des connaissances
- **Moyens de la formation** :Formation présentielle – 1 poste par stagiaire – 1 vidéo projecteur – Support de cours fourni à chaque stagiaire
- **Modalités pédagogiques** :Exposés – Cas pratiques – Synthèse
- **Validation** :Exercices de validation – Attestation de stages